Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-07-07-08** **Date: 15-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-05-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-07-07-08** **Date: 09-06-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	12-05-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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BBMP, Bangalore

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Authorized Signatory
Quality Manager

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QC ABSTRACT

NAME OF WORK: Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	8 sets /200-250 cum	205.03	16	16
9	RCC(M15)	Compressive Strength(7days and 28days)	2 sets /16-30 cum	12.6	4	4

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-07-07-08** **Date: 15-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-05-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-05-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7440	7758	51.7	48.3	30-70
4	10 mm	5140	12898	86.0	14.0	10-35
5	4.75 mm	1720	14618	97.5	2.5	0-5
6	Pan	378	14996	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-07-07-08** **Date: 15-05-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.25	–

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-07-07-08** **Date: 13-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-05-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-07-07-08** **Date: 13-05-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-07-07-08** **Date: 13-05-23**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-05-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-05-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	57	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	238	320	32.0	68.0	30-70	55-90	75-100	90-100
5	600 micron	205	525	52.5	47.5	15-34	35-59	60-79	80-100
6	300 micron	204	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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BBMP, Bangalore

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-07-07-08** **Date: 13-05-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	8.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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BBMP, Bangalore

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Quality Manager

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-07-07-08** **Date: 12-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	11-05-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-07-07-08** **Date: 22-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-23
Sample Type /Size	:	Precast Cover Slab - 100mm thickness
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	18/05/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.51	100.48	1.119	4718	81.9	17.4	16.1	20.2
2	Cover Slab-2	77.49	100.52	1.128	4715	82.3	17.5	16.2	20.3
3	Cover Slab-3	77.50	100.51	1.121	4716	81.5	17.3	16.1	20.1

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BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-07-07-08** **Date: 22-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-23
Sample Type /Size	:	Precast Cover Slab - 250mm thickness
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	18/05/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.49	250.49	3.126	4715	83.2	17.6	16.4	20.5
2	Cover Slab-2	77.48	250.48	3.122	4714	82.6	17.5	16.3	20.4
3	Cover Slab-3	77.51	250.51	3.133	4718	81.9	17.4	16.1	20.2

* The results obtained are satisfactory as per standard requirements.

Note:

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 24/05/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	17/05/2023	24/05/2023	151.26 X 149.54 X 149.21	22619	8.546	421.9	18.7	18.3
2	Drain Bottom Raft Concrete	M20	17/05/2023	24/05/2023	151.54 X 149.38 X 151.11	22638	8.411	411.2	18.2	
3	Drain Bottom Raft Concrete	M20	17/05/2023	24/05/2023	149.27 X 151.75 X 149.12	22651	8.297	411.6	18.2	

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Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 14/06/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	17/05/2023	14/06/2023	149.99 X 151.45 X 149.23	22716	8.431	529.1	23.3	23.0
2	Drain Bottom Raft Concrete	M20	17/05/2023	14/06/2023	151.55 X 151.86 X 149.57	23015	8.380	512.6	22.3	
3	Drain Bottom Raft Concrete	M20	17/05/2023	14/06/2023	151.22 X 150.64 X 150.78	22780	8.627	536.4	23.5	

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Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-07-08 **Date: 24/05/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	17/05/2023	24/05/2023	149.24 X 150.00 X 149.60	22386	8.596	412.4	18.4	18.3
2	Drain Bottom Raft Concrete	M20	17/05/2023	24/05/2023	149.77 X 150.76 X 150.34	22579	8.185	415.7	18.4	
3	Drain Bottom Raft Concrete	M20	17/05/2023	24/05/2023	151.32 X 149.73 X 149.60	22658	8.264	411.4	18.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 14/06/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	17/05/2023	14/06/2023	150.65 X 150.97 X 149.05	22745	8.808	524.0	23.0	22.9
2	Drain Bottom Raft Concrete	M20	17/05/2023	14/06/2023	150.35 X 150.94 X 151.95	22692	8.950	514.5	22.7	
3	Drain Bottom Raft Concrete	M20	17/05/2023	14/06/2023	150.34 X 149.32 X 151.57	22448	8.942	518.9	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 26/05/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	19/05/2023	26/05/2023	150.62 X 150.28 X 151.03	22635	8.870	409.2	18.1	18.3
2	Drain Bottom Raft Concrete	M20	19/05/2023	26/05/2023	150.16 X 150.72 X 151.96	22632	8.443	415.2	18.3	
3	Drain Bottom Raft Concrete	M20	19/05/2023	26/05/2023	149.67 X 151.15 X 149.30	22623	8.862	420.7	18.6	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 16/06/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	19/05/2023	16/06/2023	150.33 X 149.56 X 151.82	22482	8.974	527.4	23.5	23.3
2	Drain Bottom Raft Concrete	M20	19/05/2023	16/06/2023	149.01 X 151.23 X 150.65	22536	8.281	508.2	22.6	
3	Drain Bottom Raft Concrete	M20	19/05/2023	16/06/2023	151.32 X 151.42 X 150.57	22913	8.577	549.7	24.0	

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Lab ID : **CP-2023-07-07-08** **Date: 26/05/2023**

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Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	19/05/2023	26/05/2023	149.94 X 151.66 X 149.97	22740	8.405	419.1	18.4	18.2
2	Drain Bottom Raft Concrete	M20	19/05/2023	26/05/2023	151.21 X 151.74 X 149.51	22944	8.514	416.6	18.2	
3	Drain Bottom Raft Concrete	M20	19/05/2023	26/05/2023	149.10 X 149.75 X 149.67	22329	8.562	404.2	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 16/06/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	19/05/2023	16/06/2023	151.02 X 150.13 X 149.17	22672	8.458	525.3	23.2	23.1
2	Drain Bottom Raft Concrete	M20	19/05/2023	16/06/2023	151.95 X 149.03 X 151.49	22645	8.488	514.2	22.7	
3	Drain Bottom Raft Concrete	M20	19/05/2023	16/06/2023	151.56 X 151.25 X 151.06	22924	8.118	539.6	23.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 27/05/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/05/2023	27/05/2023	150.96 X 150.89 X 150.52	22778	8.734	413.9	18.2	18.3
2	Drain Side Wall Concrete	M20	20/05/2023	27/05/2023	149.70 X 151.14 X 150.99	22626	8.584	414.9	18.3	
3	Drain Side Wall Concrete	M20	20/05/2023	27/05/2023	151.71 X 151.70 X 149.71	23015	8.926	420.7	18.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 17/06/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	20/05/2023	17/06/2023	149.62 X 150.96 X 149.50	22587	8.742	524.7	23.2	22.9
2	Drain Side Wall Concrete	M20	20/05/2023	17/06/2023	149.61 X 151.74 X 151.48	22702	8.307	507.2	22.3	
3	Drain Side Wall Concrete	M20	20/05/2023	17/06/2023	151.18 X 149.87 X 149.99	22657	8.180	526.7	23.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Agency/Representative
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Kodigehalli Sub Division
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-07-07-08** **Date: 27/05/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	20/05/2023	27/05/2023	151.89 X 151.86 X 149.10	23065	9.002	425.5	18.4	18.5
2	Drain Side Wall Concrete	M20	20/05/2023	27/05/2023	150.67 X 151.41 X 149.04	22813	8.818	420.2	18.4	
3	Drain Side Wall Concrete	M20	20/05/2023	27/05/2023	150.63 X 150.32 X 151.93	22643	8.716	420.1	18.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 17/06/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	20/05/2023	17/06/2023	149.47 X 149.65 X 150.64	22369	8.306	531.7	23.8	23.4
2	Drain Side Wall Concrete	M20	20/05/2023	17/06/2023	151.12 X 151.90 X 151.08	22955	8.810	519.6	22.6	
3	Drain Side Wall Concrete	M20	20/05/2023	17/06/2023	149.09 X 149.11 X 149.59	22231	8.132	531.2	23.9	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 29/05/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-05-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/05/2023	29/05/2023	149.76 X 149.52 X 149.70	22391	8.970	422.4	18.9	18.8
2	Drain Side Wall Concrete	M20	22/05/2023	29/05/2023	151.98 X 150.47 X 151.88	22869	8.796	429.2	18.8	
3	Drain Side Wall Concrete	M20	22/05/2023	29/05/2023	150.23 X 149.18 X 149.65	22412	8.364	417.3	18.6	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08**

Date: 19/06/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-05-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	22/05/2023	19/06/2023	149.04 X 151.12 X 150.82	22523	8.973	521.2	23.1	23.2
2	Drain Side Wall Concrete	M20	22/05/2023	19/06/2023	151.03 X 150.46 X 151.54	22723	8.184	517.5	22.8	
3	Drain Side Wall Concrete	M20	22/05/2023	19/06/2023	149.86 X 150.99 X 151.14	22627	8.439	537.8	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 29/05/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-05-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/05/2023	29/05/2023	149.73 X 150.59 X 150.72	22547	8.570	427.6	19.0	18.5
2	Drain Side Wall Concrete	M20	22/05/2023	29/05/2023	149.41 X 151.57 X 149.44	22647	8.917	415.3	18.3	
3	Drain Side Wall Concrete	M20	22/05/2023	29/05/2023	149.58 X 151.41 X 149.24	22649	9.078	414.8	18.3	

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BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-07-07-08** **Date: 19/06/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/05/2023	19/06/2023	151.84 X 149.71 X 149.20	22733	8.808	543.2	23.9	23.4
2	Drain Side Wall Concrete	M20	22/05/2023	19/06/2023	150.20 X 149.11 X 151.18	22397	8.201	510.8	22.8	
3	Drain Side Wall Concrete	M20	22/05/2023	19/06/2023	150.74 X 150.00 X 150.68	22611	8.872	534.2	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 01/06/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-05-23

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RCC	M15	25/05/2023	01/06/2023	150.29 X 150.76 X 150.84	22657	8.825	294.3	13.0	12.6
2	RCC	M15	25/05/2023	01/06/2023	150.94 X 149.61 X 149.99	22582	8.266	271.8	12.0	
3	RCC	M15	25/05/2023	01/06/2023	151.53 X 150.54 X 150.16	22812	8.590	291.6	12.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-07-07-08** **Date: 22/06/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-23
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RCC	M15	25/05/2023	22/06/2023	151.70 X 149.06 X 151.87	22612	8.283	386.7	17.1	17.4
2	RCC	M15	25/05/2023	22/06/2023	151.87 X 149.89 X 149.78	22765	8.738	399.5	17.5	
3	RCC	M15	25/05/2023	22/06/2023	150.01 X 150.47 X 150.52	22572	8.909	397.5	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-07-07-08** **Date: 01/06/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.

Customer's Reference : BBMP/EE/BTP/WO/206/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-05-23

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M15	25/05/2023	01/06/2023	149.65 X 150.28 X 149.99	22490	8.297	281.2	12.5	12.7
2	RCC	M15	25/05/2023	01/06/2023	149.69 X 149.93 X 150.98	22443	8.963	281.2	12.5	
3	RCC	M15	25/05/2023	01/06/2023	150.17 X 151.25 X 149.88	22713	8.612	294.5	13.0	

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BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-07-07-08** **Date: 22/06/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. SAMBASHIVA, No.04, 3rd Main road, Chamundeshwari layout. Doddabommasandra, Vidyaranyapura, Bengaluru-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-23
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M15	25/05/2023	22/06/2023	149.24 X 150.69 X 149.06	22488	8.466	396.4	17.6	17.4
2	RCC	M15	25/05/2023	22/06/2023	150.40 X 151.56 X 149.19	22795	8.426	397.7	17.4	
3	RCC	M15	25/05/2023	22/06/2023	150.98 X 149.81 X 151.47	22618	8.890	385.9	17.1	

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Kodigehalli Sub Division
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